

Fig. 2a

1 10 20 30 40 50 60 70	80 90 100 110 120 130 140 CCTCGTCTTCGGCGCCTCGGCGCCTCAGGGCCCTTCCACCTCACCTCACTCACCTCACCTCACCTCACCTCACCTCACCTCACCTCACCTCACCTCACCTCACCTCACCTCACCAC	150 160 170 180 190 200 210 220 ATGGCCACCTCAGCACTTGAACAAAACATCAAGCAAATGTTGTGCCTGCC	230 240 250 260 270 280 290 GTCCAAGCCATGTATATCTGGGTACTGGAAAGGACTGCGCTGCAAAACCCGCACCCTGGACTGGACAGGCTGCAAAACCCGCACCCTGGACTGGACAGAACGAAACGAAACCGAAAACCGGACCCTGGACTGGACAGAAGCAAAACCGAAAACCGGACCCTGGACAGAACCGAAAACCGAAAACCGAAAACCGAAAACCGAAAACCGAAAACCGAAAACCGAAAAACCGAAAACCGAAAACCGAAAACCAAAAACAAAAAA	100 110 120 130 130 140 150 160 170 CCCAAGTGCTGTAGAAGTGCTCTAGTACTTGCAGTGCTCCAACAGTGTTAGTAGTTTCAGTGTTCAGTGTTCAGTGTCTAGTAGTTTCAACAGTGTTTAGTAGTTTTCAACAGTGTTTAGTAGTTTTCAACAGTGTTTAGTAGTTTTCAACAGTGTTTAGTAGTTTTCAACAGTGTTTAGTAGTTTAGTAGTGTTAGTAGTGTTAGTAGTGTTAGTAG
50 60 AATCTCCTCGCCGCTCTCACT	140 Acctr	ည် ပ	290 GACT X	S L
66 5667 7	GCAC 1		7 20 7	ိုင်း
• 00 ×	YGA X	21 20 20 8 8 20	7 1 1 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5	3 6 A G
50	130 GGCCACCGCTCA(<<< << <) 1 1 1 X	280 3000 8 8	និ
50 ATCT	O _V	ည်း ၁၈၈၈ ၁၈၈၈	Y +	TCA O
°SS ×	2299	20 NCTT	X X	35 CTT
,ACA	120	M M	270 CGCTC R C	GTAC S J
40 77CCC	זככנ	2 W Z W 15	71 1 1	CTA S
GATTC	TCA	Y X Y	ပို့ ဗ	
3C T.	110 rccar	I I	260 (GAA) E	GAT D
30 SACT	່ອວວ	AAAC N D	135g. 0	30 TTT
5500	SACC.	CAA.	TAC T T	E A Z Z Z
AGA(100 rgtcca	L TGA	250 ATGG	KGTG E W
20 GAGT >>>>	, CCT	ACT H	i v	20 CTG/
1666	90 3GTGGC >>>>>	3 5 8	ეე <u>ლა</u> ≥ ≥	TAC L
10 20 31 CCGAGCCGAGATGGGAGTAGAGCCGA	6 DE .	AGT S S	240 1 V 1 V 1 V 1 V 1 V 30	GAG B S
<u>2</u> 00 €	TGG(< < <	160 AGCA A	Y Y CB	CGAA
CGAG	80 PCTCG	S	EXX 00	7.5.7.v
۲ ۲ ۲	GITG	CCAC X-D	230 NAGCC 2 A 2 A	550
	90 90 CCTCGTTCTCGTGGCTCGTGGCCC	ATGG ATGG AC CB	GTCC/ V (V (25	300 CCCAJ
ä	ā	4 5 5 5	5 5 5 5	5

Fig. 2b

110	rctgtgaa	P C E			520	rccrcAcc	, ,,	CB XII-C		06	STTGGCCT		×			670 GGATATC	-
•	CTGGTGT	r <	9	c k	510	ATGGACA	 	CB XIV	120	š	CCTTTTG		a.	:	145	660 TATGGCA	ت د
430	CCCAACAAG	×			200	VAACGGATA	- 			580	SATGGGCAC	2	1 C	0		650 GACAAAGCC	×
420	GCAGAGAT	K R D	8	9.	0	ACTCGTGT	υ υ • • •	, ,	115	570	TGGGAACA	ب و ع	٠ ت	CB VI-	140	TGGGCGCA	۷ ۲ ۷
410	ACCCCTTCC D P P	0 P P			490	ATTTAAGGC	2 Z	:		260	ATACTCTGA	I L	YT			640 ACTGTGGTGT	ဗ ပ
400	rcrrrcccc	. a.	CB VI-C	82	480	CAGAGACCA	 		110	550	AACAGGAGT	ы О	3 O S	8 X11-A	135	630 STCCGTATT	× a.
390	TGTTGCCA'	· «			470	SAAGCCTG	× 1		5	9	rccaated.	× S	E 5	ಶ	_	620 SCCCCAAGO	0.0
3	CTCAGCCC	. A.	X11-C	08	460	TACAACCG	z z >>	2	10	Ň	cccreerr	3 3 4	РХР		Ĩ	610 TTTCCTGG	a. s
380	GACATGTATCTCAGCCCTGTTGCCATGTTTCGGGACCCCTTCCGCAGAGTCCCAACAAGCTGGTTCTGTGAA D W V I S P V A M P R D P R R D P N K L V P C B	. ×	CB	75	450	GTTTTCAAG		< -	100	530	AACCAGCACCCCTGGTTTGGAATGGAACAGGAGTATACTCTGATGGGAACAGATGGGCACCCTTTTGGTTGG	Ξ Ο	×		125	600 TCCAATGGC	S N G P P G P P Y Y C G V G A D K A Y G K D I
	÷ .						:						c			:	<u>.</u>

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Fig. 2c

			-
XI-H	820 rcrr6	STGCA S A	970 rcgag I E
ATGC M E	P J	890 N S	GCCA.
6GTC	810 cccGT A R 220	CTGG * 8	960 3AGGAG E E E E
SCTGAGG A E X X 195	8 37660 V A 22	880 TCGGAA	96 NTCGAG I E I E
AAATGCJ N A N X I-D	Tege	TCCTC	GCAC!
GAAC G T CB V	800 ATCTCT H L	CCAT P I	950 TGAAG L K L K
720 TACAGG T G 9 G 9 G - C	AGATC D 215	870 CAAGC K 1	TGGTC G G
AGAT K I K	790 NTGGGA M G	A d	940 SAGAAY E N
710 GGTC/ 1 1	72932 W	860 CTTTC	GGAGG E E I I I I
GCTGC A G A C	780 GGAA7 G 1 G 1	GCAAC A 1 235	930 ATGCC H F H)
700 rGTAT	STGAA	850 FAATA / I	V V
76C77 C 1 C 1	770 GACCCTC G P C	5000	920 AGCACCAJ S T J
690 CGCGCC R A A T V	TAGGA I G I G	840 SACTTT D F	TTTAGG F S
Y	760 CCCAAA 7 0 2	rgaag E 2	910 CCAACT
680 GCTCA(A H	SAA1T	830 GTATG	CATAC
680 690 700 710 720 730 740 CFGGAGCTCACTACCGCGCTCAGATTACAGAAAAATGCTGAGGTCATCCTCCC V E A H Y R A C L Y A G V K I T G T N A E V M P A A C L Y A G i K 9 G T N X V W P A T VI -G I Y A G I K 9 G T N X V W P A T VI -G I N S I N S I N B A T VI -G I N S I N S I N B A T VI -G I N S I N S I N B A T VI -G I N S I N S I N B A T VI -G I N S I N S I N B A T VI -G I N S I N S I N B A T VI -G I N S I N S I N B A T VI -G I N S I N S I N B A T VI -G I N S I N B A T VI -G I N S I N B A T VI -G I N S I N B A T VI -G I N S I N B A T VI -G I N S I N B A T VI -G I N S I N B A T VI -G I N S I N S I N B A T VI -G I N S I N S I N B A T VI -G I N S	750 760 770 780 790 800 810 820 CATTGOCATGOCATCTCTGGCGAGATCTCTGGCTGCCGTTCATCTTGCGCATTCTTGCTTG	810 840 850 860 870 880 890 CAFCGAGTATGTGAACAGCCAATCCTGGAACTGGAATGGTGCAATGGTGCAACGCCAATGCTGGAACTGGAATGGTGCAATGGTGCAACGCCAATGGTAACAGGTGCAATGGTGCAATGGTGCAATGGTGCAATGGTGCAATGGTGCAATGGTGCAATGGTGCAATGGTGCAATGGTGCAATGGTGCAATGGTGCAATGGTGCAATGGTGCAATGGTGCAATGGTGCAATGGTGCAATGGTGCAATGGTGAATGGTGCAATGGTGAATGAAT	900 910 920 930 940 950 960 970 GGCTGCCATACCAACCACACAGGCCATCGAGGAGAATGGTCTGAACACACATCGAGGAGAATGGTCTGAACACACATCGAGGAGAATGGTCTGAACACACATCGAGGAGGAGAATGGTCTGAACACACATCGAGGCCATCGAGGGCATCGAGGAGAATGGTCTGAACACACATCGAGGAGGAGAATGGTCTGAACACACATCGAGGAGAATGGTCTGAACACACAACAACAACAACAACAACAACAACAACAACAA
	 	.	d: : :

Fig. 2d

AAACTAAAGCGGAACGGGAACGGAACGGAACGGACGGGCCTGGACAAGGGGGCCTGGACAGGGGCCTGGACTCTCTCT	1050 1060 1070 1080 1090 1100 1110 1120	1130	1200
AATGCC N A	1110 TGCCAGC A S A S T IX-C	rrcrcac c D	1260 NATACAAA 2 Y K 2 Y K 370
1030 G L D	1100 SCCAATCGCAGT ANRS ANR9	1180 TCTGCCAAT S A N	1250 GCCCTTCCAA S P P Q
1020 CCCAAGGGG P K G P K I-1	1090 SCTGGTGTCGCC A G V A 315	1170 SCCCCCCCC R R P	1240 ACTGGCGACGAC T G D E T G B Z
1010 GCCTACGAT A Y D A Y B T IX-B	0 10 17TTTCTGCT F S A 9	1160 TTTGAAGAC	ATGAGACT N E T N Z T
1000 CACATTCGA(H I R q	1080 ATCAACGACTT I N D F I N Y C III-C)	1150 AAAGGTTAC' K G Y 335	1230 TGCCTTCTCAA C L L N C L L N T VI-K
990 CACCGCTAC H R Y 1 n Y	1070 ACGTCCAACA T S N T S N (-CB I	1140 CAGGAGAAG Q E K 330	1220 GTCCGCACAT V R T T
GCAAGCGG	1060 TTCCACGAAI F H E	ACTGTCGCO T V G	1210 SAAGCCATO E A I
AAACTAA K L X L T IX 275	1050 ACTGGGT T G 300	11 CCCCGGA P R P R T IX-E 325	1200 GTGACAG V T 350
	3 3 3 5	## ## ## ## ## ## ## ## ## ## ## ## ##	5 5 5 5

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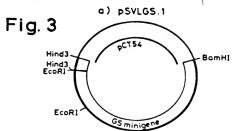
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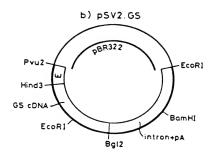
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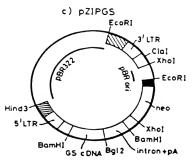
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Fig. 2e

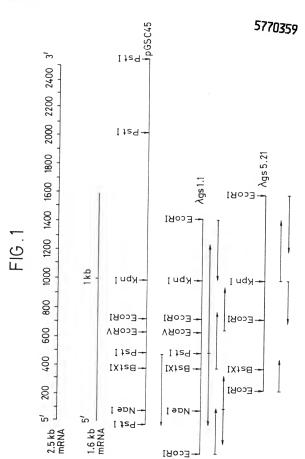
Applicants - Richard Herris WILLIAM - Lat. - 17952390 - Toba Assigned March 16, 1992 - 830048/10555











O.G. FIG

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90 CG	
70 CACTIC	
60 SCCGCTCTCACT C <<<<	
rccrc	
50 CACCAATC	
40 GATTCCCA >>>>	
30 SCCGACTGCTT >>>>	
20 TGGGAGTAGAC	
10 GCCGAGAA	
1 ccga	
es •••	

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FIG.2b

GAA E E	520 TGAGC V S V S XII-C	CCT P	670 TATC
rgi C	STG. V V XI	gg × ×	6. D
4440 TTC: F	ATG M M CB	590 GGT	16GG
A V	SAC D D B KIV	FF	9807
CTG L L 15	510 ATGG M 1 M 1 CB X	CCT P P 145	660 ratg y (
430 CAAGC K X	I	580 GCACC	SCC.
AACA N N	7.662 R	36 6 6	K
CCCC/	500 AAA(K	SATC D r	650 GACI D
SATO D D	SGT C) T T T	A A
420 SAGAGAT R D R D	0 510 AATTTAAGGCACTCCTCTAAACGGATAATGGACATGG N L R H S C R R I M D M N L X t C C M B M C C X I C C X I C B II5 120	560 570 580 TATACTCTGATGGGAACAGATGGGCAC Y T L M G T D G H Y T L M G T r G r CB VI-D 140	3GC(G
CGCC R K	490 GCAC	M M	640 TGTGC
TTC.	4 4 9 R X	71G2 1.	6. 6. 6.
410 CCCTTC P F P F	L	560 ACT(T	2 S
DD DD	N N	TATI Y Y	rac:
400 4: TGTTTCGGGACC M F R D I M F R D I CB VI-C	480 ACCAJ T T T	GAG' E E -A 135	630 ratti Y
GTTT GTTT F F	E E	550 ACAGO	Tocal
ATG' M M	3CA(SAAC E E CB	G G
GCC. A A	470 CCT(P	ATG M M	620 CAA(O
GTT V a	AAG K r	3GAJ G	- 22 CC -
390 CCTG P P P	CGG. R k 105	540 TTTG F (366(6 6 155
S S V	460 CAAC N	JGG × ×	610 TCCT
CTC	TAC.	, , , , ,	P. F. F.
380 TAT Y Y CB ;	A X X	530 CACC H X	ည် ဗ
380 400 410 420 440 GACATGRATCTCAGCCCTGTTTCTGCAGAGATCCCAACAAGCTGGTGTTCTGTAA D M Y L S P V A M F R D P F R R D P N K L V F C E M Y L V P A A M F R D P F R R D P N X L V F C E CB XII-C R VI-C 75 CB XII-C 80 85 90 95	TTC F	CAG	AAT N
GAC D D 75	450 460 470 480 500 510 520 GITTICAAGTACACGAAAAGGACAGGGGGGCACCGCTGCTAAAACGGAAAAAGGACAGGGGGCCTCGTGTAAAACGGATAAAGGACAGGGGGCCTCGTGTAAAACGGATAAAGGGACAGGGGGCCTCGTGTAAAACGGATAAAGGACATGGTGCTAAAACGGAAAAAGGACATGCTGTAAAACGGAAAAAGGACATGCTAAAAGGACATGCTAAAAAGGAAAAAGGACAAGAAGAAAAAAAA	530 540 550 550 560 570 580 590 AACCAGCACCCTGGTTTGGAATGGAACAGGGAACAGAGGGCACCTTTTGGTTTGGCTT N Q H P W F G M E Q E Y T L M G T D G H P F G W P N Q X P X F G M E Q E Y T L M G T D G H P F G W P 125 130 135 140	600 610 620 640 650 660 670 TCCAATGGCTTTCTGGCCCCAAGGTCCCTATTACTCTGGCCGCAAGCCAAGCCTATGGCAGGCA
 d	 d.c.b		.: .: C::

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BY CLASS SUB

740 STCATGCCTGCC V M P A V M P A CB XI-H	820 TCATCTTG F I L	890 AATGGTGCA N G A	970 CCATCGAG A I E A I E
730 ATGCTGAGGTCA N A E V N X X V -D 195	810 GGGTGGCCCGT7 W V A R 220	880 8 CTGGGAACTGGA P G N W 245	960 ACATCGAGGAGG H I E E Y I E E 270
720 SATTACAGGAACAA I T G T 9 G T - CB VI-	790 800 GGGGGATCATCTCT 1 G D H L 1 215	870 CCCAAGCCCATTC P K P I 240	940 950 AGAATGGTCTGAAGCACATG E N G L K H I E N G L K Y I 265
00 710 ATGCTGGGGTCAA(Y A G V K Y A G i K Y N 185	780 PAAGGAATCCGCATC E G I R M E G I d M	0 TAGCAACCTTTGAC I A T F D 235	CCATGCGGGAGGA A M R E E M X E E CB III-C
680 690 700 710 720 730 740 CTGGAGGCTCACTACTATGCTGGGGTCAAGATTACAGGAACAAATGCTGAGGTCATGCCTGCC	750 760 770 780 790 800 810 820 CAGTGGGAATTCCAAATAGGACCCTGTGGAATCCGCATGGGAGATCATCTCTGGGTGGCCGTTTCATCTTG W W A R F I L Q W E F Q I G P C E G I R M G D H L W V A R F I L Q W E F Q I G P C E G I d M 215 220	830 840 850 860 870 880 890 CATCGAGTATGTAGAGATTTGGGGTAATTGGTAATTGGTAATTGGTAATTGGTAATTGGTGG	900 910 920 930 940 950 960 970 970 960 970 960 970 960 970 960 970 960 970 970 970 970 970 970 970 970 970 97
680 GTGGAGGCTCACTU V E A H 1	750 CAGTGGGAATTCCAA Q W E F Q 200	830 CATCGAGTATGTG7 H R V C I 225	900 GGCTGCCATACCAA G C H T N 250
 d.:	 	ъ а С	 d c b



F1G. 2d

1040 TGCCCGTGGTCTG	1110 GCCACCATCCCATT A S I R I A S I R I T IX-C-1	1190 TGACCCTTTGCA D P F A 5	1260 1270 TACAAAAACTAATTA Y K N *** Y K 372
1030 GGGCCTGGACAAT G G L D N	1090 11100 11110 STOREGEORGEORGEORGEORGEORGEORGEORGEORGEORG	CCCTCTGCCAATTGT PSANC	1250 1266 GAGCCCTTCCAATACJ E P F Q Y Z P F Q Y 370
D 1000 1010 1020 1030 1040 CGGTACCACATTCGAGCCTACGAGGGGGCCTGGACAATGCCCGTGGTCTCT R Y H I R A Y B P K G G L D N A R G L N Y G A Y B P K Z 1 X-B-1 290 295	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	1160 1170 TTTGAAGACCGCCGCC F E D R R F 340	0 1240 AATGAGACTGGCGAC N E T G D N Z T G B 365
ACCGGTACCACATTCGACATTCATT	0 1060 1070 1080 G F H E T S N I N D F T S N I N Y Q (-CB III-C) 310	1130	1220 1230 CGCACATGCCTTCTCAA R T C L L N T C L L N T V L L N 360
980 CTAAGCAAGCGGC L S K R L St Ks n I IX-B-2	1050		1210 1220 1230 1240 1250 1260 1270 1260 1270 1260 1270 1260 1270 1260 1270
a: AAA b: K c: X d: 275	105 a: ACT b: T c: d: 300	a: CCC b: P c: P d: T II	120 a: GTG b: V c: d: 350

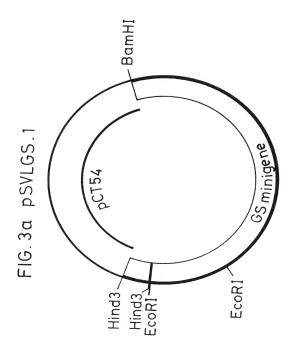
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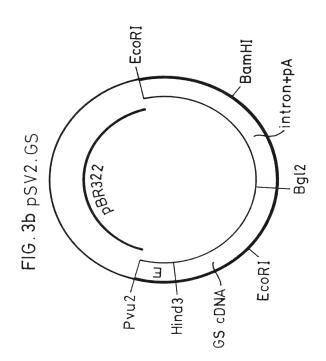
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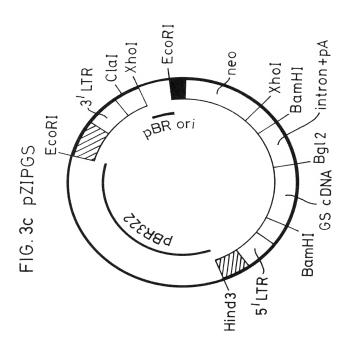
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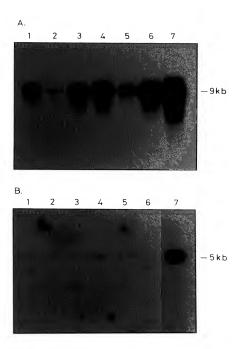
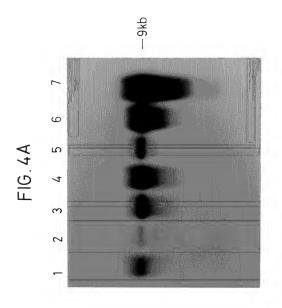
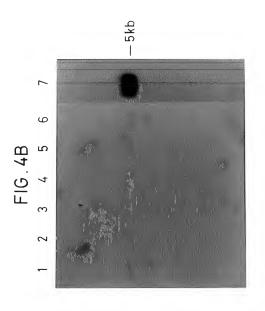
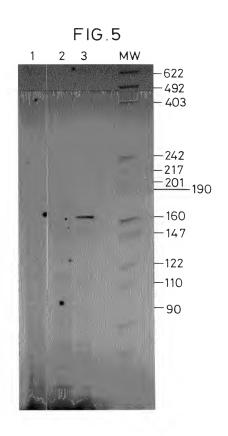


Fig. 4







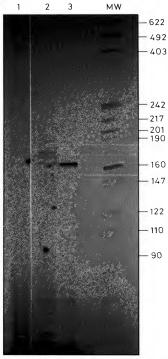


Fig. 5